

Abstract

The invention relates to a plain bearing composite material comprising a steel carrier layer, a carrier layer which is cast, sintered or cladded thereon, the carrier layer being made of bronze or brass, and a bearing coating on the carrier layer or on an intermediate layer, the bearing coating being made of a bearing coating material based on aluminium/tin/copper, to increase load-bearing capacity and resistance to wear of the plain bearing composite material. According to the invention, the composition of the plain bearing materials is AlSn(22 - 30)Cu(2.3 - 2.8), optionally, comprising upto 2 wt. % Ni, Si, Mn and impurity related elements up to, respectively, 0.5 wt. %, the total quantity thereof not amounting to more than 1 wt. %, and the hardness of the bearing coating being between 110 - 150 HV 0.002.